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PATENT

ATTORNEY DOCKET: 051530-5007-US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of : **Matthew GONDA et al.**

U.S. Application: 10/508,965

Filing Date: **April 11, 2005**

For: **Recombinant Expression Vectors For
Functional Na_v1.9 Sodium Channels**

Group Art Unit: 1734

Examiner: *Unassigned*

Commissioner for Patents
U.S. Patent and Trademark Office
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401 Dulany Street
Alexandria, VA 22314

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b)

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), Applicants petition the Examiner to consider this Information Disclosure Statement and documents listed on the attached Form PTO-1449. To the best of the undersigned's knowledge, this Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits for the above-referenced Application. Accordingly, Applicants do not believe a fee is due for filing this Supplemental Information Disclosure Statement.

With the exception of U.S. Patents, copies of the listed documents are attached. Applicants respectfully request that the Examiner initial and return the Form PTO-1449, indicating that the information has been considered and made of record herein.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute prior art. If it should be determined that the listed documents constitute prior art under United States law, Applicants reserve the right to present to the office the relevant facts and law regarding the appropriate status of such document.

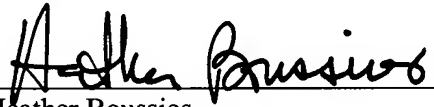
Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

Except for issue fees payable under 37 C.F.R. § 1.18, the Commissioner is hereby authorized by this paper to charge any additional fees during the entire pendency of this application including fees due under 37 C.F.R. §§1.16 and 1.17 which may be required, including any required extension of time fees, or credit any overpayment to Deposit Account No. 50-0310. This paragraph is intended to be a **CONSTRUCTIVE PETITION FOR EXTENSION OF TIME** in accordance with 37 C.F.R. §1.136(a)(3).

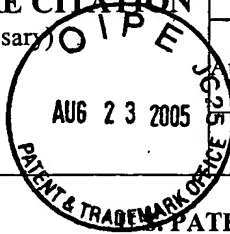
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Respectfully submitted,

Morgan, Lewis & Bockius LLP

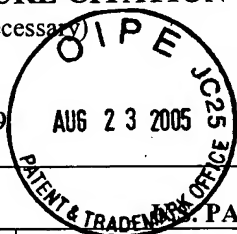

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INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				Attorney Docket No. 051530-5007-US		Application No. 10/508,965	
PTO Form 1449				Applicants: Matthew GONDA <i>et al.</i>		PAGE 1 of 3	
Filing Date: April 11, 2005				Group Art Unit: 1734			



PATENT DOCUMENTS							
Initial		Document No.	Date	Name	Class	Sub-Class	Filing Date
	1.	6,184,349	2/2001	Herman et al.			
	2.	6,573,067	06/2003	Dib-Hajj et al.			
FOREIGN PATENT DOCUMENTS							
		Document No.	Date	Country	Class	Sub-Class	Translation
	3.	FR 2771103	11/1998	FR			
	4.	GB 2332906	07/1999	GB			
	5.	WO 97/01577	01/1997	PCT			
	6.	WO 99/38889	08/1999	PCT			
	7.	WO 99/47670	09/1999	PCT			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
	8.	Akopian et al., "A tetrodotoxin-resistant voltage-gated sodium channel expressed by sensory neurons," <i>Nature</i> , 379: 257-262, 1996.					
	9.	Akopian et al., "Structure and distribution of a broadly expressed atypical sodium channel," <i>FEBS Letters</i> , 400: 183-187, 1997.					
	10.	Arbuckle et al., "Expression of tetrodotoxin-resistant sodium channels in capsaicin-sensitive dorsal root ganglion neurons of adult rats," <i>Neuroscience Letters</i> , 185: 70-73, 1995.					
	11.	Beckh et al., "Differential regulation of three sodium channel messenger RNA's in the rat central nervous system during development," <i>EMBO J.</i> , 8: 3611-3616, 1989.					
	12.	Black et al., "Sodium channel mRNAs in cultured spinal cord astrocytes: in situ hybridization in identified cell types," <i>Molecular Brain Research</i> , 23: 235-245, 1994.					
	13.	Cannon, "Ion-channel defects and aberrant excitability in myotonia and periodic paralysis," <i>Trends Neurosci.</i> , 19(1): 3-10, 1996.					
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	15.	Catterall, "Structure and function of voltage-gated ion channels," <i>Trends Neurosci.</i> , 16(12):500-508, 1993.					
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	17.	Dib-Hajj, "Down-regulation of transcripts for Na channel α -SNS in spinal sensory neurons following axotomy," <i>Proc. Natl. Acad. Sci. USA</i> , 93: 14950-14954, 1996.					
	18.	Dib-Hajj et al., "Insertion of a SNS-specific tetrapeptide in S3-S4 linker of D4 accelerates recovery from inactivation of skeletal muscle voltage-gated Na Channel μ 1 in HEK 293 cells," <i>FEBS Letters</i> 416: 11-14, 1997.					
	19.	Dib-Hajj et al., "NaN, a novel voltage-gated Na channel, is expressed preferentially in peripheral sensory neurons and down-regulated after axotomy," <i>Proc. Natl. Acad. Sci. USA</i> , 95: 8963-8968, 1998.					
	20.	Dib-Hajj et al., "Two tetrodotoxin-resistant sodium channels in human dorsal root ganglion neurons," <i>FEBS Letters</i> 462: 117-120, 1999.					
	21.	England, "PGE ₂ modulates the tetrodotoxin-resistant sodium current in neonatal rat dorsal root ganglion neurones via the cyclic AMP-protein kinase cascade," <i>J. Physiology</i> 495(2): 429-440, 1996.					
	22.	Felipe et al., "Primary structure and differential expression during development and pregnancy of a novel voltage-gated sodium channel in the mouse," <i>J. Biol. Chem.</i> , 269: 30125-30131, 1994.					
Examiner				Date Considered			
Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

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FOREIGN PATENT DOCUMENTS							
		Document No.	Date	Country	Class	Sub-Class	Translation

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)	
	23. Fjell et al., "Differential expression of sodium channel genes in retinal ganglion cells," Molecular Brain Research, 50: 197-204, 1997.
	24. George et al., "Genomic organization of the human skeletal muscle sodium channel gene," Genomics, 15: 598-606, 1993.
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	30. Ptáček, "Channelopathies: ion channel disorders of muscle as a paradigm for paroxysmal disorders of the nervous system," Neuromuscul. Disord., 7: 250-255, 1997.
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	33. Rizzo et al., "Mechanisms of paresthesiae, dysesthesia, and hyperesthesiae: role of Na ⁺ channel heterogeneity," European Neurology, 36: 3-12, 1996.
	34. Roden et al., "Structure and function of cardiac sodium and potassium channels," Am. J. Physiol., 273: H511-525, 1997.
	35. Rush et al., "Phenytoin and carbamazepine: Differential inhibition of sodium currents in small cells from adult rat dorsal root ganglia," Neuroscience Letters, 226: 95-98, 1997.
	36. Sangameswaran et al., "Structure and function of a novel voltage-gated, tetrodotoxin-resistant sodium channel specific to sensory neurons," J. Biol. Chem., 271(11): 5953-5956, 1996.
Examiner	Date Considered

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